**IN THE CLAIMS:** 

Please amend the claims as follows:

Claim 1 (Original): A document binding apparatus for externally attaching to a printer

apparatus, comprising:

a paper lead-in roller mechanism for leading a paper discharged from the printer

apparatus;

a paper arranging mechanism for aligning a position of the paper;

a paper binding mechanism for binding the paper;

a paper discharge roller mechanism for discharging the paper.

Claim 2 (Original): The document binding apparatus according to Claim 1, further

comprising a binding table receiving the paper discharged from the printer apparatus.

Claim 3 (Original): The document binding apparatus according to Claim 2, wherein a

surface of said binding table is provided with non-slip treatment preventing misalignment

of the arranged paper.

Claim 4 (Original): The document binding apparatus according to Claim 3, wherein the

non-slip treatment is a non-slip member having a high coefficient of friction and provided

by one of sticking and coating.

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Claim 5 (Original): The document binding apparatus according to Claim 4, wherein said

non-slip member is a rubber sheet.

Claim 6 (Original): The document binding apparatus according to Claim 3, wherein the

non-slip treatment is a non-slip processing directly carried out over said surface of said

binding table.

Claim 7 (Original): The document binding apparatus according to Claim 1, wherein said

paper binding mechanism is an electromotive stapler for binding a vicinity of a corner

portion of the paper.

Claim 8 (Original): The document binding apparatus according to Claim 1, further

comprising:

a stack tray for receiving the paper discharged by said paper discharge roller

mechanism.

Claim 9 (Currently Amended): The document binding apparatus according to Claim 1,

further comprising:

a control device for sequence controlling said paper lead-in roller mechanism,

said paper arranging mechanism, said an electromotive stapler and said paper discharge

roller mechanism,

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wherein a series of operations are executed, in which the paper discharged from the printer apparatus is led and arranged, and the arranged paper is bound through a staple, and the bound paper is discharged.

Claim 10 (Original): The document binding apparatus according to Claim 1, further comprising:

a paper detecting sensor for detecting the paper discharged from the printer apparatus;

a paper lead-in starter for starting said paper lead-in roller mechanism in response to an ON signal of said paper detecting sensor;

a paper arranging starter for starting said paper arranging mechanism in response to an OFF signal of said paper detecting sensor;

a comparator for comparing an OFF continuation time taken after said paper detecting sensor is turned OFF with a reference time;

a binding starter for starting said paper binding mechanism when the OFF continuation time exceeds the reference time; and

a discharge starter for starting said paper discharge roller mechanism after binding by said paper binding mechanism.

Claim 11 (Original): The document binding apparatus according to Claim 10, further comprising:

a counter for measuring the number of ON operations of said paper detecting sensor,

wherein said binding starter starts said paper binding mechanism when the number of the ON operations of said paper detecting sensor is two or more.

Claim 12 (Original): The document binding apparatus according to Claim 10, wherein said paper detecting sensor includes a lever.

Claim 13 (Original): The document binding apparatus according to Claim 10, wherein said paper lead-in roller mechanism includes a paper lead-in roller, and said paper discharge roller mechanism includes a paper discharge roller, a paper discharge gear and a paper discharge driven roller, and

said document binding apparatus further comprising:

- a paper feeding motor;
- a gear train for driving said paper lead-in roller and a paper discharge roller by said paper feeding motor;
  - a rotatable link arm including a shaft;
  - a torque limiter;
- a gear attached to said shaft of said link arm through said torque limiter and engaged with said paper discharge gear; and

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a power transmitting member,

wherein said paper discharge roller is attached to a tip portion of said link arm, and said paper discharge roller and said gear attached to said shaft of said link arm are coupled through said power transmitting member, and

wherein, when said paper feeding motor is rotated in a forward direction, said paper lead-in roller is rotated in a forward direction to lead in a paper and a tip of said link arm is rotated in such a direction as to separate from a paper feeding path so that said paper discharge roller separates from said paper discharge driven roller, and

wherein, when said paper feeding motor is rotated in a reverse direction, the tip of said link arm is rotated in a direction of the paper feeding path so that said paper discharge roller comes in contact with said paper discharge driven roller, and said paper discharge roller is rotated in a forward direction, thereby discharging the paper.

Claim 14 (Original): The document binding apparatus according to Claim 13, wherein said power transmitting member is at least one of an intermediate gear or a timing belt.

Claim 15 (Original): The document binding apparatus according to Claim 1, wherein said paper lead-in roller mechanism includes a paper lead-in roller and a paper lead-in gear, and

said paper discharge roller mechanism includes a paper discharge roller and a paper discharge gear, and

said document binding apparatus further comprising:

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a paper arranging rotation brush;

a paper arrangement gear;

a main case provided with said paper lead-in gear, said paper discharge gear and said paper arrangement gear;

an openable cover assembled into said main case and provided with said paper lead-in roller, said paper discharge roller and said paper arranging rotation brush; and

gear provided on respective shafts of said paper lead-in roller, said paper discharge roller and said paper arranging rotation brush, and respectively engaged with said paper lead-in gear, said paper discharge gear and said paper arrangement gear in order to transmit a power in a state that said cover is closed.

Claim 16 (Original): The document binding apparatus according to Claim 1, wherein said paper lead-in roller mechanism includes:

a paper lead-in roller; and

a paper lead-in driven roller provided in contact with said paper lead-in roller and having a gear-shaped section.

Claim 17 (Original): The document binding apparatus according to Claim 1, wherein said paper discharge roller mechanism includes:

a paper discharge roller; and

a paper discharge driven roller provided in contact with said paper discharge roller and having a gear-shaped section.

Claim 18 (Original): The document binding apparatus according to Claim 16, wherein

said paper discharge roller mechanism includes:

a paper discharge roller; and

a paper discharge driven roller provided in contact with said paper discharge

roller and having a gear-shaped section.

Claim 19 (Original): The document binding apparatus according to Claim 13, wherein

said paper lead-in roller mechanism further includes a paper lead-in driven roller

provided in contact with said paper lead-in roller and having a gear-shaped section.

Claim 20 (Original): The document binding apparatus according to Claim 13, wherein

said paper discharge driven roller of said paper discharge roller mechanism has a gear-

shaped section.

Claim 21 (Original): The document binding apparatus according to Claim 19, wherein

said paper discharge driven roller of said paper discharge roller mechanism has a gear-

shaped section.

Claim 22 (Original): The document binding apparatus according to Claim 2,

wherein said binding table includes a right wall surface and a left wall surface,

and

wherein said paper arranging mechanism includes:

a paper arranging pusher formed to be protruded from one of said right wall

surface and said left wall surface into said binding table and to be retreated therefrom;

a cam mechanism for reciprocating said paper arranging pusher;

a paper arranging rotation brush mechanism provided between said right wall

surface and said left wall surface;

a motor; and

a gear train for driving said cam mechanism and said paper arranging rotation

brush mechanism by said motor;

wherein a side surface of the paper introduced into said binding table is pushed by

said paper arranging pusher to carry out alignment in a transverse direction, and a surface

of the paper is swept by said paper arranging rotation brush to carry out alignment in a

longitudinal direction.

Claim 23 (Original): The document binding apparatus according to Claim 22, further comprising an openable cover, and

wherein said paper arranging mechanism further includes a tension coil spring and a crank pin to be rotated interlockingly with said paper arranging rotation brush, and wherein said paper arranging rotation brush is provided on said openable cover, and said crank pin is coupled to said cover through said tension coil spring, and said paper arranging rotation brush is returned to an initial rotation position by tensile force of said tension coil spring when said cover is opened.

Claim 24 (Original): The document binding apparatus according to Claim 1,
wherein said paper binding mechanism is a electromotive stapler including a
clincher and a driver and fixed into such a position that a staple hits on a corner portion of
the paper put on said binding table, and

wherein a side edge portion of the paper enters a portion between said clincher and said driver and runs during lead-in of the paper, and the corner portion of the paper accumulated on said binding table is bound by said electromotive stapler.

Claim 25 (Original) The document binding apparatus according to Claim 24, further

comprising an openable cover including a paper guide provided on a back face thereof for

controlling an upper limit position of the side edge portion of the paper, said cover

covering said electromotive stapler and said binding table,

wherein the side edge portion of the paper is guided to a portion between said

clincher and said driver by said paper guide.

Claim 26 (Original): The document binding apparatus according to Claim 25, wherein

said paper guide of said cover is provided immediately before said electromotive stapler

in a state that said cover is closed.

Claim 27 (Original): The document binding apparatus according to Claim 24, wherein a

surface of said binding table is provided with non-slip treatment preventing misalignment

of the arranged paper.

Claim 28 (Original): The document binding apparatus according to Claim 27, wherein

the non-slip treatment is a non-slip member having a high coefficient of friction and

provided by one of sticking and coating.

Claim 29 (Original): The document binding apparatus according to Claim 28, wherein

said non-slip member is a rubber sheet.

Claim 30 (Original): The document binding apparatus according to Claim 27, wherein

the non-slip treatment is a non-slip processing directly carried out over said surface of

said binding table.

Claim 31 (Original): The document binding apparatus according to Claim 2 wherein said

paper binding mechanism binds a vicinity of a corner portion of the paper put on said

binding table, and said paper discharge roller mechanism discharges the paper input on

said binding table.

Claim 32 (Original): A method of binding a document by a document binding apparatus

externally attached to a printer apparatus, said method comprising the steps of:

leading a paper discharged from the printer apparatus;

aligning a position of the paper;

binding the paper; and

discharging the paper,

wherein said steps of leading the paper, aligning the position of the paper, binding

the paper and discharging the paper are sequentially executed.

Claim 33 (Original): A method of binding a document according to Claim 32, further

comprising the step of:

detecting the paper discharged from the printer apparatus.

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Claim 34 (Original): The method of binding a document according to Claim 33, wherein

said step of detecting the paper is executed by pushing a lever provided to the document

binding apparatus.

Claim 35 (Original): The method of binding a document according to Claim 33, further

comprising the step of:

comparing a continuation time taken after termination of detecting the paper with

a reference time,

wherein:

said step of leading the paper starts in response to detection of the paper;

said step of aligning the position of the paper starts in response to the termination

of detecting the paper;

said step of binding the paper starts when the continuation time exceeds the

reference time; and

said step of discharging starts after said step of binding.

Claim 36 (Original): The method of binding a document according to Claim 35, further

comprising the step of:

measuring the number of detection of the paper discharge from the printer

apparatus,

wherein said step of binding starts if the number of the detection is two or more.

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Claim 37 (Original): The method of finding a document according to Claim 32, wherein:

said document binding apparatus includes a paper feeding motor;

said step of leading the paper is executed when the paper feeding motor is rotated

in a forward direction; and

said step of discharging the paper is executed when the paper feeding motor is

rotated in a reverse direction.

Claim 38 (Original): The method of binding a document according to Claim 32, further

comprising the step of:

moving and entering a side edge portion of the paper between a clincher and a

driver of a stapler provided to said document binding apparatus before binding the paper.

Claim 39 (Original): The method of binding a document according to Claim 32, further

comprising the step of:

entering a side edge portion of the paper between a clincher and a driver of a fixed

stapler provided to said document binding apparatus before binding the paper.